BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work :- Detailed Estimate for:-Operation and Maintenance of street light fittings in Jakkuru ward no.06 Package Y-06 of Yelahanka Zone for the Period (10 Months).

Budget Head .....

Division No..... Estimate No. 08/24-25 For Rs.= 5960000.00

Sl No	SR Page No	Description of Work	Unit	Qty	Rate For 10 Months Rs. Ps.	Amount
1	AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starters and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day, Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **36/40 watt fluoroscent tube light street lighting systems.**	Each	56	426.67	23893.33
2	AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starters and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day,Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **125 watt HPMV park lighting systems.**	Each	86	554.17	47658.33
3	AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starters and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day,Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **250 watt HPSV street lighting systems.**	Each	2716	792.50	2152430.00
4	AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starters and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day, Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **400 watt HPSV street light/high mast lighting systems.**	Each	100	854.17	85416.67
5	AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed /fused out components like LED drivers,LED array, MCPCB, surge protective device,wires and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day, Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **24 to 45 watt LED street lighting System.**	Each	58	622.50	36105.00

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6	AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers,LED array, MCPCB, surge protective device,wires and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day, Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **50 to 72 watt LED street lighting systems.**	Each	210	815.00	171150.00
7	AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers,LED array, MCPCB, surge protective device,wires and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day, Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **90 watt LED street lighting systems.**	Each	1261	990.00	1248390.00
8	AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/ fused out components like LED drivers,LED array, MCPCB, surge protective device,wires and switching ON/OFF of street lights at specified timing, furnishing maintenance reports every day, Maintaining movement log of ladder jeep by installing dedicated GPS system with required hardware and software etc, complete, so as to ensure efficient burning of street lights as detailed in tender documents for **100 to 120 watt LED street lighting systems.**	Each	660	1148.33	757900.00
9	5.15.1/17 PWD Ele SR 23-24	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws,bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit in Thermal Magnetic Release. Micro processor release shall have Earth Fault as per IS-13947. (Icu=100% Ics). In 4P MCCB , all Poles should have protection for Short-Circuit/Over Load. For Microprocessor MCCBS Facility for segregating Priority and Non-Priority loads must be available in the MCCB. MCCB shall be provided with double insulation (insulation between front cover and internal power circuits to avoid any accidental contact with live current carrying path with the front cover open). Multi-pole breakers shall be designed to break all the poles simultaneously and they shall have a single mechanism.**THREE Pole 100 A 25 kA**	Each	23	6086.00	139978.00
10	5.44.1/21 PWD Ele SR 23-24	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof,dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cut-out with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.**300 mm x 300 mm x 214 mm**	Each	22	4512.00	99264.00
11	18/42.09 PWD Ele SR 23-24	1.1 kV, LT Aerial Bunched Cable, XLPE insulation confirming to IS-14255: 1995 2x16 + 1x25 Sqmm (Insulated Messenger cum Neutral) 85219	KM	0.5	85219.00	42609.50
12	53/24.03 PWD Ele SR 23-24	Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70)(Insulated Messenger Neutral) + (1x16) (Street LightControl)	KM	0.5	33109.00	16554.50

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13	19/43.12 PWD Ele SR 23-24	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connection	No	10	186.00	1860.00
14	19/43.17 PWD Ele SR 23-24	Dead End Clamp/Anchor Clamp Assembly 16 to 70 Sqmm Bare Messenger (Exclusive of Pole Clamp and Eye Hook)	No	6	232.00	1392.00
15	54/24.12 PWD Ele SR 23-24	Installation of Insulation piercing connector for Main to Street Light Main ; 16-95 Sqmm, Tap: 1.5-10 Sqmm (EP95)	No	10	90.00	900.00
16	54/24.11 PWD Ele SR 23-24	Pole Clamp-145 mm x 95	No	16	160.00	2560.00
17	55/25.02 PWD Ele SR 23-24	Fixing of Dead End Clamp	No	6	380.00	2280.00
18	11/4.1.1 PWD Ele SR 23-24	Fabricating, supplying and erecting Swaged tubular Pole of height ...m having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the Pole(as per IS) and 40 mm dia GI/flexible PVC pipe of 1m length fitted to the heavy gauge polycarbonate control box including 5 Way connector of size 167 x 125 x 82 mm for 7.5M Pole/ 200 x 160 x 98 mm for remaining length of Pole with front opening cover, with locking arrangements and suitable capacity MCB/DP switch, The Pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the Pole to the ground level and the coping CC shall be upto 0.6m above ground level as per IS2713-7.Erection of heavy duty Pole on Footpath/median 9m (5m Hb,165.1 mm dia 4.85 mm thick x 2m Hm, 139.7 mm dia 4.50 mm thick x 2m Ht,114.3 mm dia 3.65 mm thick) as per IS 410 SP 32	Each	5	15500.00	77500.00
19	13/13.4.1 PWD Ele SR 23-24	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia1.5m long M.S.Bracket and are welded with suitable angle, using 6mm thick M.S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 ms. M. S.tubular pole, with necessary two coats of painting, with all other accessories.Single bracket 1.5 m. Length	Each	5	1461.00	7305.00
20	13/13.4.3 PWD Ele SR 23-24	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia1.5m long M.S.Bracket and are welded with suitable angle, using 6mm thick M.S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 ms. M. S.tubular pole, with necessary two coats of painting, with all other accessories.Double bracket 2x1.5 m. Length	Each	2	2335.00	4670.00

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21	46/11.8.5 PWD Ele SR 23-24	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source.LED Streetlight 120 W	Each	13	10060.00	130780.00
		Total				**5050596.33**
		Add 18% GST				**909107.34**
		Misleniuos				**296.33**
		Grand Total Rs				**5960000.00**

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on approved rates and PWD Ele SR 23-24.
5. The Above Work is not Taken up in any Previous Grants.
6. The AMC Proposed for the Street Lights in the estimate are not under DLP.

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 59.60 lakhs
Rupees Fifty Nine lakhs and Sixty Thousand only
is accorded under Item P0300 Mondeta
Street light Replacement of Burnt Bulb etc (package)
Registered in pages 142, 143 Subject
to conditions
No. BBMP/EE(E)/422/AS/19/24-25
Dt 21/9/24
Executive Engineer

Technically Sanctioned for Rs. 5960000.00
Rs. In Words Fifty Nine lakhs Sixty thousand Only
Units P-0300
EIC No 05 124-25
to conditions contained in Enc
No. EE/PR/05/ 124-25 Dt 23/9/24
AE/JE. TA

23/9/2024

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